

# NAVAL SAFETY CENTER UPDATE ON MISHAP REDUCTION EFFORTS



– Briefing for VADM Ulrich –  
6th Fleet

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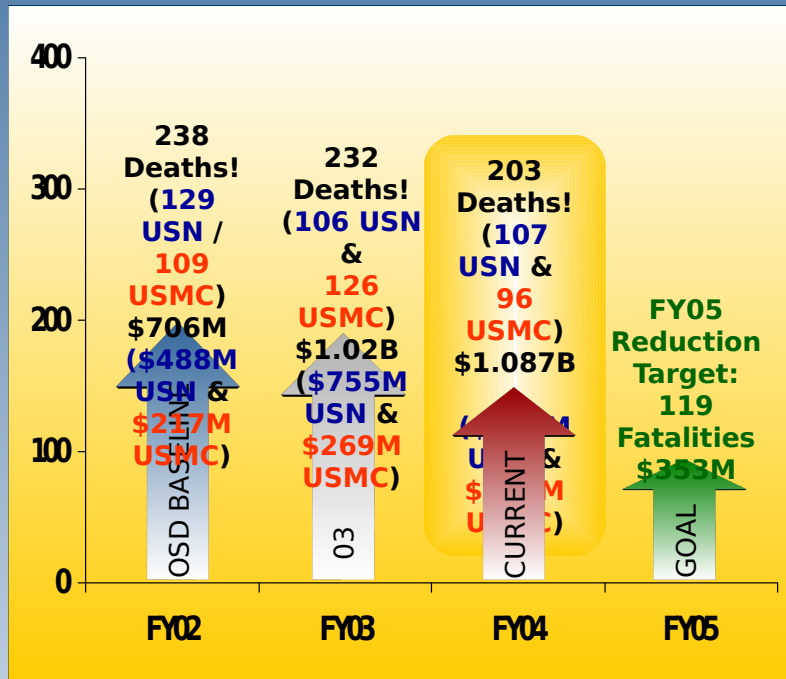


# Halfway There – How Are We Doing?

NSC Data: 13 September 2004

## USN/USMC FATALITIES AND RESOURCES LOST

NUMBER OF FATALITIES



## USN/USMC MISHAP AND FATALITY TRENDS

|                         | FY04 |      | FY05  |       | FY05 Goals |       |
|-------------------------|------|------|-------|-------|------------|-------|
|                         | USN  | USMC | USN   | USMC  | USN        | USMC  |
| Aviation                | .14  | 1.69 | .32   | 2.71  | .88        | 1.95  |
| Afloat                  | .08  | N/A  | .71   | N/A   | 1.50       | N/A   |
| Shore/Ops               | .13  | 5.56 | 1.22  | 8.72  | 2.08       | 6.04  |
| PMV (Off-Duty)          | 3.83 | 3.1  | 8.93  | 6.69  | 9.74       | 18.71 |
| REC (Off-Duty)          | 1.63 | 1.68 | 3.05  | 3.33  | 2.73       | 3.16  |
| Civilian lost day rates | 6.59 | 3.67 | 14.84 | 18.96 | 19.91      | 36.91 |

(07 Aug 2004)

We are headed toward 213 (112 USN & 101 USMC) deaths in FY04 -  
Our FY05 50% mishap reduction goal is 119.

### LEGEND: FY04/05

- = on or below glide slope/FY05 goal
- = above glide slope/FY05 goal
- = within 2.0 of glide slope/FY05 goal
- FY05 USN Goal
- FY05 USMC Goal

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# USN Cost and Deaths (FY02-04)

NSC Data: 13 September 2004

**Total Mishap Cost =  
\$1.73B**

**Sailors Dead = 342**

|                     |                                     |       |       |       |
|---------------------|-------------------------------------|-------|-------|-------|
| Aviation Leads Cost | <b>Aviation<br/>FY04<br/>\$436M</b> |       |       |       |
|                     | COST IN MILLIONS                    |       |       |       |
|                     |                                     | FY02  | FY03  | FY04  |
|                     | AVIATION                            |       |       |       |
|                     | AFLOAT                              | \$418 | \$711 | \$439 |
|                     | PMV                                 | 41    | 17    | 21    |
|                     | SHORE/OPS                           | 16    | 16    | 13    |
|                     | RECREATION                          | 6     | 3     | 4     |
|                     | TOTAL COST                          | 7     | 8     | 6     |
|                     |                                     | \$488 | \$755 | \$483 |

|                      |   |      |      |      |
|----------------------|---|------|------|------|
| PMV Leads Fatalities | <b>PMV<br/>FY04<br/>65</b>                |      |      |      |
|                      | FATALITIES PER 100,000 PERSONNEL PER YEAR |      |      |      |
|                      |   | FY02 | FY03 | FY04 |
|                      | PMV                                       |      |      |      |
|                      | SHORE/OPS                                 | 75   | 66   | 68   |
|                      | RECREATION                                | 14   | 9    | 11   |
|                      | ON AVIATION                               | 21   | 20   | 21   |
|                      | AFLOAT                                    | 14   | 10   | 5    |
|                      | TOTAL DEATHS                              | 5    | 1    | 2    |
|                      |   | 129  | 106  | 107  |



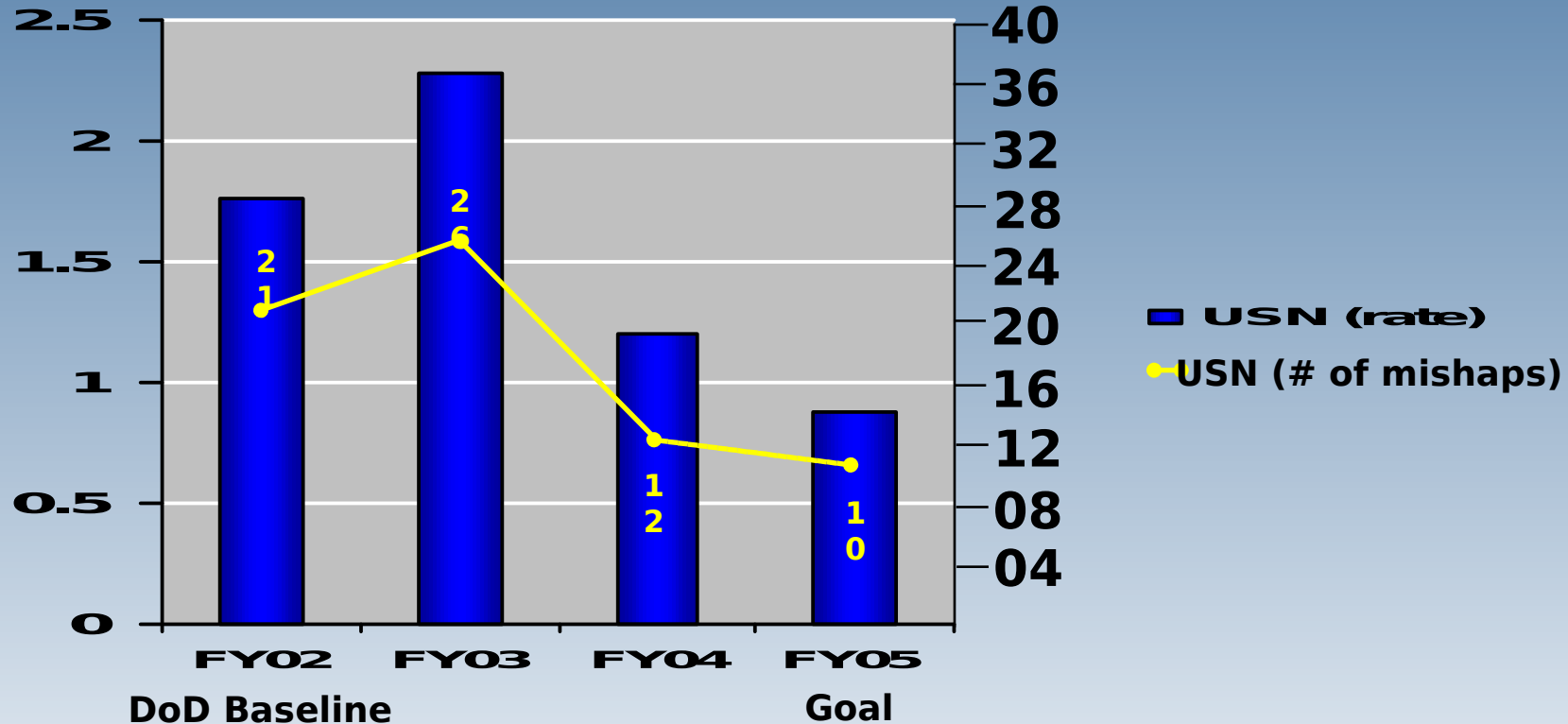


# USN Aviation Mishap Rates & Class A's

NSC Data: 13 September 2004

Rate per 100,000  
flight hours

Number of  
Class A mishaps



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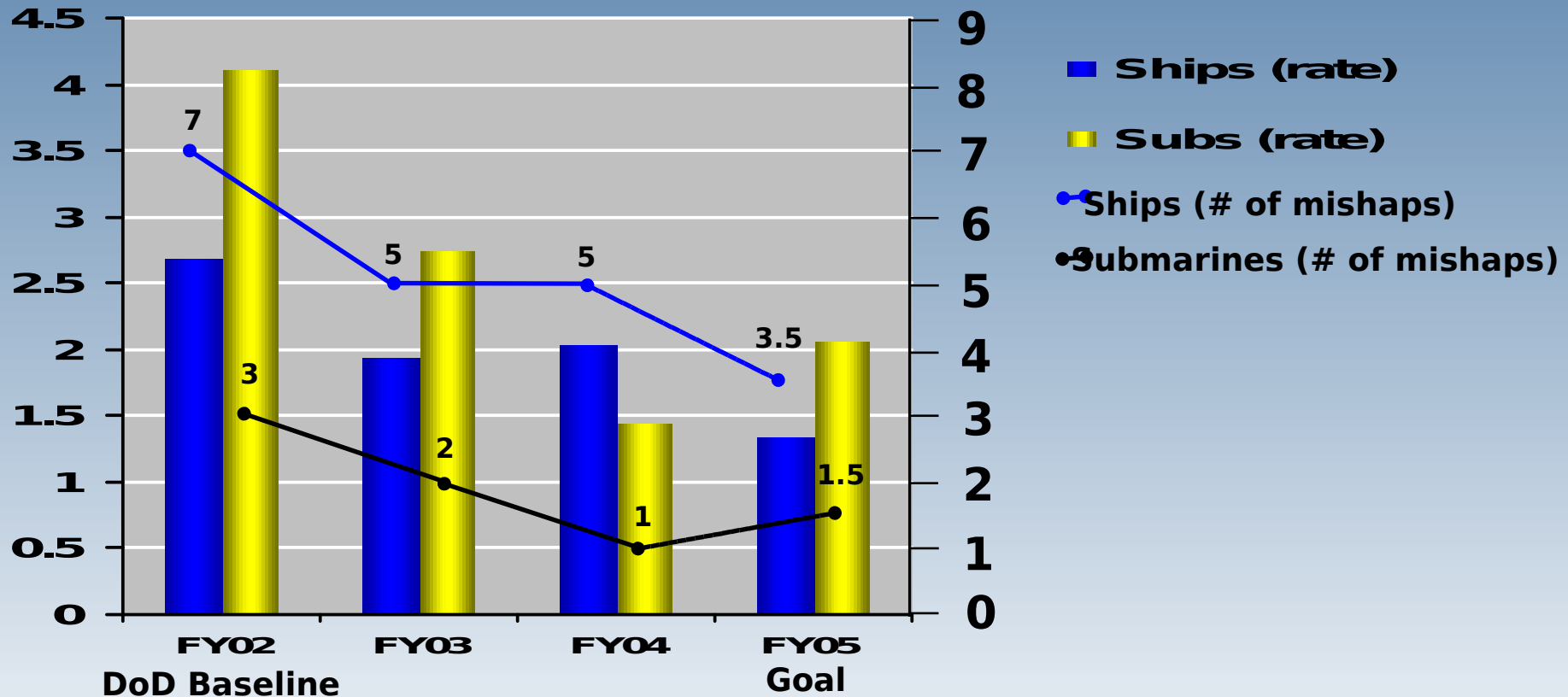


# USN Afloat Class A Mishap Rates & Class A's

NSC Data: 13 September 2004

Rate per 100 ships per year

Number of Class A mishaps



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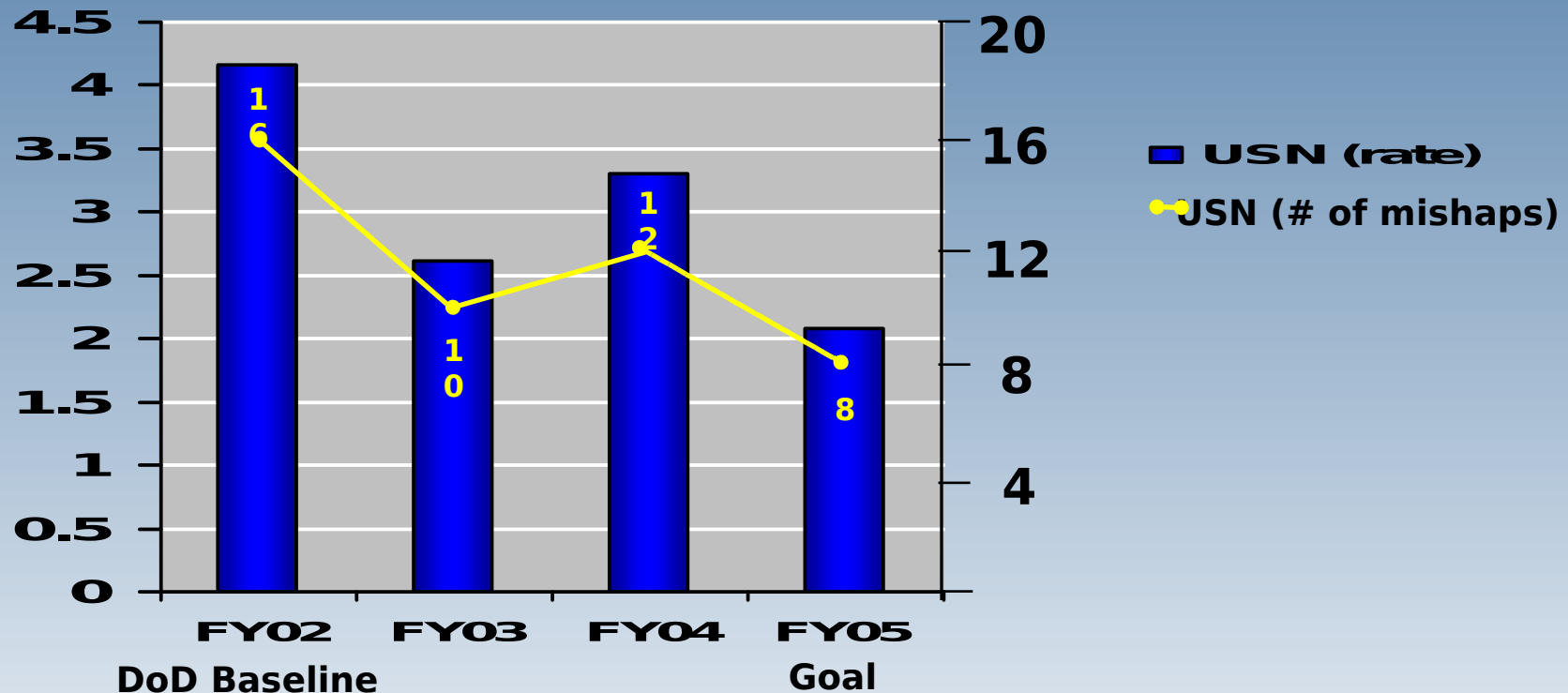


# USN Shore Mishap Rates & Class A's

NSC Data: 13 September 2004

Rate per 100,000  
personnel per year

Number of  
Class A mishaps



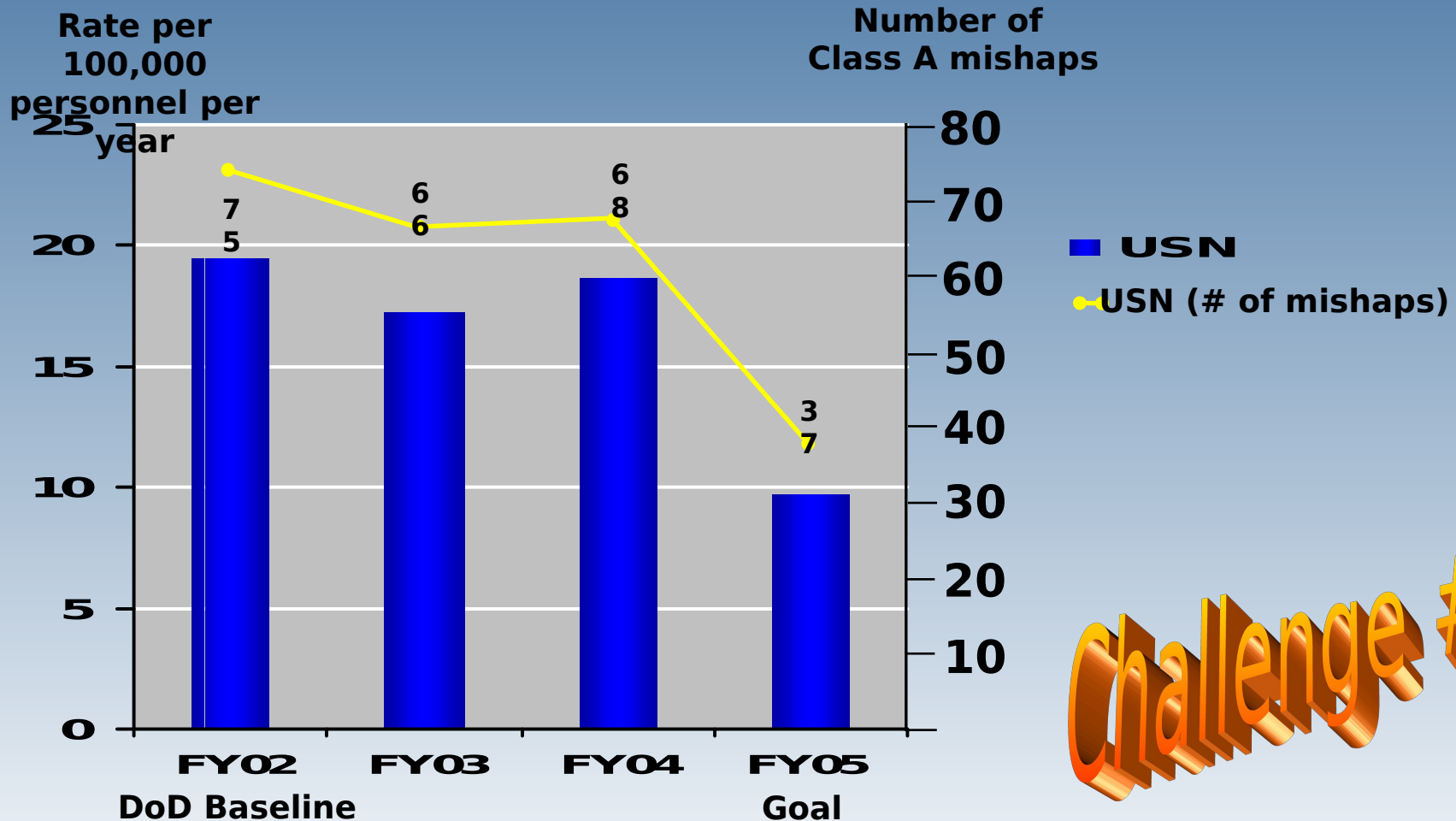
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# USN PMV Fatality Rates & Class A's

NSC Data: 13 September 2004



Challenge #1

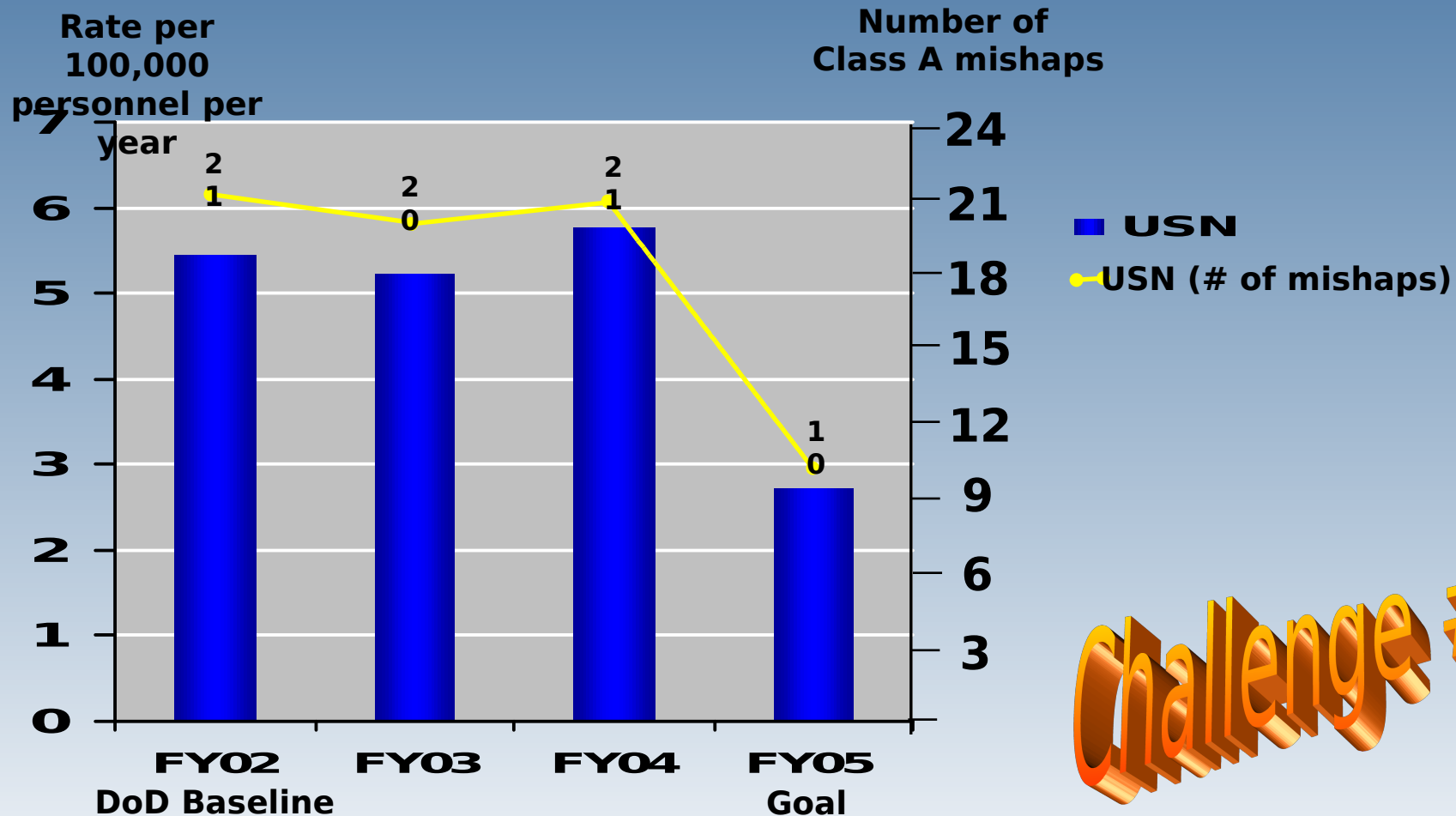
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# USN Off-Duty Recreation Fatality Rates & Class A's

NSC Data: 13 September 2004



Challenge #2

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# Force Comparison (6<sup>th</sup> Fleet) - FY02-04

NSC Data: 13 September 2004

| USN<br>Class<br>A's/Rate | JFK Battle<br>Group | Wasp<br>ESG      | HST Battle<br>Group | Saipan<br>ESG    |
|--------------------------|---------------------|------------------|---------------------|------------------|
| <b>38 / 1.79</b>         | <b>2 / 4.40</b>     | <b>1 / 8.22</b>  | <b>2 / 3.93</b>     | <b>1 / 12.94</b> |
| <b>14 / 2.17</b>         | <b>2 / 12.89</b>    | <b>1 / 7.36</b>  | <b>0</b>            | <b>0</b>         |
| <b>22 / 2.96</b>         | <b>0</b>            | <b>0</b>         | <b>0</b>            | <b>0</b>         |
| <b>41/ 5.52</b>          | <b>0</b>            | <b>1 / 15.49</b> | <b>1 / 7.19</b>     | <b>1 / 17.60</b> |
| <b>132 / 17.79</b>       | <b>5 / 34.91</b>    | <b>0</b>         | <b>1 / 7.19</b>     | <b>2 / 35.20</b> |

## Aviation

(per 100k flight hrs)

## Afloat

(per 100 ships)

## Shore

(per 100k personnel)

## Rec (Off-Duty)

(per 100k personnel)

## Traffic

(per 100k personnel)

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# Commander's Assessment

## TOP CONCERNS

### • **Status Quo Will Not Get the Job Done.**

Good programs exist and have produced some good results, but...

### • **Leadership and Accountability Required.**

Most mishaps can be prevented with appropriate intrusive leadership and involvement at every level.

### • **Cradle to Grave Training as Long-Term Fix.**

5 Vector Model being worked by NSC and Navy Center for Personal Development.

### • **Safety Center & Navy-Marine Corps Focus.**

Predictive and Preparative vice Reactive.

### • **Utilize All Available Safety Resources.**

Army Safety Management Information System, Traffic Safety Toolbox, Leave/Liberty Risk Assessments, etc.

### • **Emphasize Safety and Risk Management "24x7."**

A way of life. Not a concept that gets increased emphasis post-mishap.

### • **Balanced Acquisition Approach.**

Balanced acquisition approach for platforms and COTS/emergent technologies to reduce mishaps.

### • **ORM is Getting There, But More to Do to Ingrain It On and Off-**

### • **Duty.**

### • **Bottom Line**

**PLATFORM MISHAP REDUCTION - ACHIEVABLE. OFF-DUTY - HARD**

- **Off-Duty (PMV, REC) A challenge**
- **50% Mishap Reduction Campaign NOT consistently reaching deckplates**
- **Cultural change takes time**





# ORM and the Fleet

## ORM (OPNAVINST 3500.39B)

- Governs use of ORM throughout the Fleet
- Progressed from “SHOULD” to “SHALL”

### TRAINING

- **Curriculum.** CNET, NSC, and NAVOSHTRACEN courses incorporate ORM into all curricula.
- **Classroom/On-Site.** Aviation, Afloat, and Submarine survey teams provide ORM refresher training upon request. Aviation, Afloat, and Submarine safety officer schools provide instructor-level ORM training. PCO/PXO/DH schools, DIVO training, and Senior Enlisted Academy provide training.
- **On-Line.** Offered through CNAF’s ORM University; Navy E-Learning website; Navy Knowledge Online; and USMC MarineNet. Resources available on NSC website. Total Risk Assessment and Control System (TRACS) & U.S. Army Motor Vehicle Risk Assessment Tool (ASMIS).

## ORM Works!

Transition to RM a Must.  
Need it On and Off-Duty!

### MISHAP RATES



ORM Introduced to Fleet  
Aviation Mishap Rates Declining  
Afloat and Submarine Communities Show Improvements

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# Ongoing Efforts

## FLEETWIDE INITIATIVES

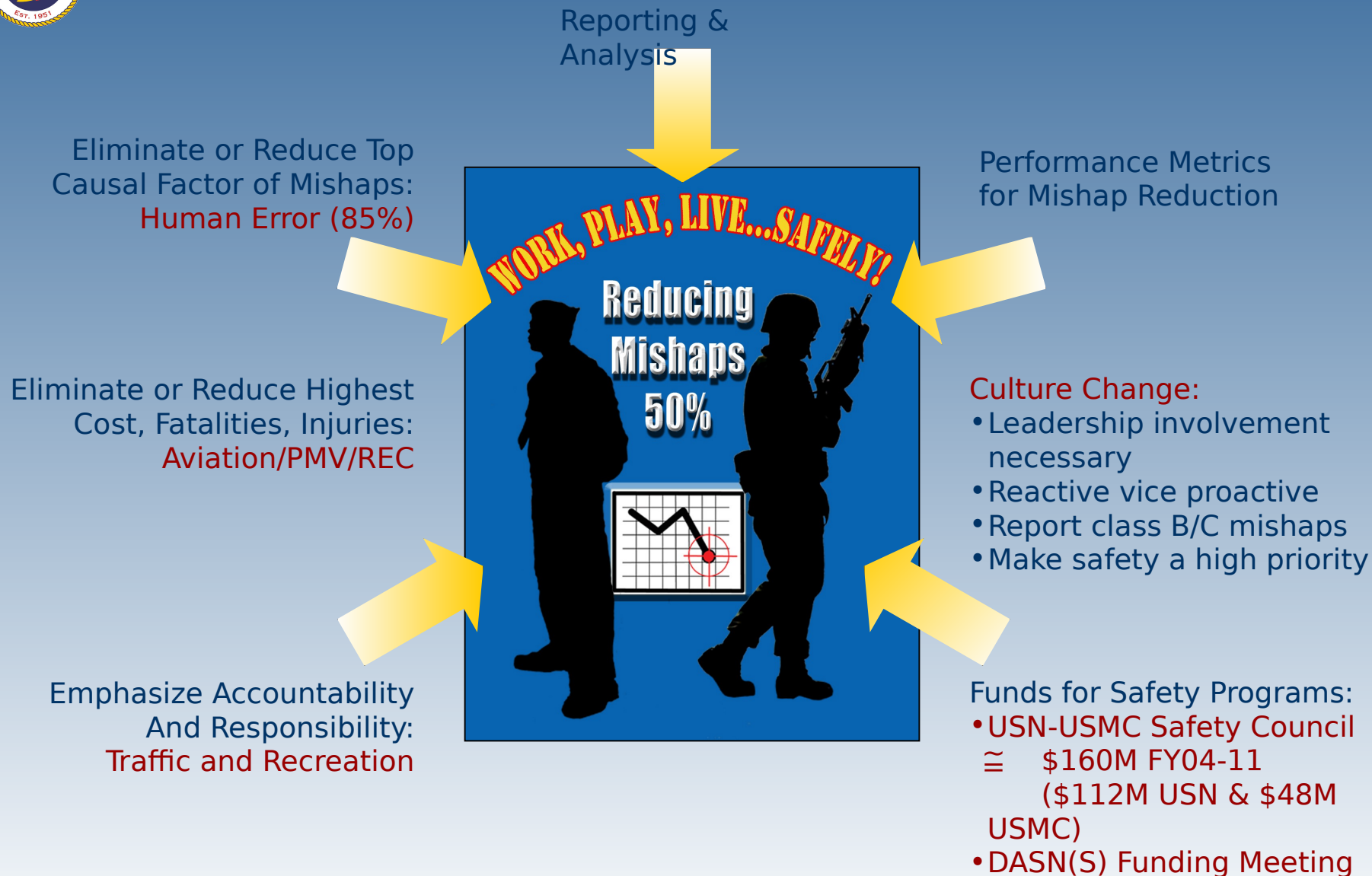
- Defense Safety Oversight Committee
- Navy and Marine Corps Safety Council
- Operational Risk Management
- Data Centric Technology - MFOQA
- Safety Strategic Plan
- Human Factors Analysis
- CNET 5 Vector Model
- Navy Knowledge Online
- Culture Workshops
- Command Safety Assessment
- Maintenance Climate Assessment Survey

## NAVAL SAFETY CENTER PROGRAMS

- Mishap Investigations
- Surveys
- Web-Enabled Safety System (WESS)
- 50% Mishap Reduction Media Kits
- Naval Safety Campaign Plan
- ASCAS
- ORM Assessment (ORMAS)
- Media Campaign: Video/Print/Broadcast
- Critical Days of Summer Campaign
- Good Samaritan Program
- First Flag Notification
- NHTSA/Drive Smart VA/USAA/Click It or Ticket/Harley Davidson
- BG/ESG/MEU Reports



# Navy-Wide Challenges





# Intrusive Leadership Makes THE Difference!



# QUESTIONS?



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[www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)

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